

GenCore version 4.5  
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OM nucleic - nucleic search, using sw model

Run on: October 21, 2001, 19:52:49 ; Search time 311.46 Seconds

(without alignments)  
11138.369 Million cell updates/sec

Title: us-09-515-806-1

Perfect score: 5525

Sequence: 1 tcgcccacgcgtccgacc.....aatgtttcatataacctgca 5525

Scoring table: OLIGO\_NUC

Gapop 60.0 , Gapext 60.0

Searched: 730101 seqs, 313950809 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1460202

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : N\_Geneseq\_0601.\*

- 1: /SIDS1/gcgdata/geneseq/geneseqn/NA1980.DAT.\*
- 2: /SIDS1/gcgdata/geneseq/geneseqn/NA1981.DAT.\*
- 3: /SIDS1/gcgdata/geneseq/geneseqn/NA1982.DAT.\*
- 4: /SIDS1/gcgdata/geneseq/geneseqn/NA1983.DAT.\*
- 5: /SIDS1/gcgdata/geneseq/geneseqn/NA1984.DAT.\*
- 6: /SIDS1/gcgdata/geneseq/geneseqn/NA1985.DAT.\*
- 7: /SIDS1/gcgdata/geneseq/geneseqn/NA1986.DAT.\*
- 8: /SIDS1/gcgdata/geneseq/geneseqn/NA1987.DAT.\*
- 9: /SIDS1/gcgdata/geneseq/geneseqn/NA1988.DAT.\*
- 10: /SIDS1/gcgdata/geneseq/geneseqn/NA1989.DAT.\*
- 11: /SIDS1/gcgdata/geneseq/geneseqn/NA1990.DAT.\*
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- 14: /SIDS1/gcgdata/geneseq/geneseqn/NA1993.DAT.\*
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- 18: /SIDS1/gcgdata/geneseq/geneseqn/NA1997.DAT.\*
- 19: /SIDS1/gcgdata/geneseq/geneseqn/NA1998.DAT.\*
- 20: /SIDS1/gcgdata/geneseq/geneseqn/NA1999.DAT.\*
- 21: /SIDS1/gcgdata/geneseq/geneseqn/NA2000.DAT.\*
- 22: /SIDS1/gcgdata/geneseq/geneseqn/NA2001.DAT.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	5107	92.4	5163	22	AAF44691
2	1985	35.9	2200	21	AAC77790
3	1585	28.7	2422	21	AAC76970
4	354	6.4	405	21	AAC77231
5	152	2.8	260	21	AAA45838
6	45	0.8	730	21	AAZ97408
7	45	0.8	745	21	AAZ97407
8	41	0.7	173	21	AAC25679
9	37	0.7	986	21	AAC79767
10	36	0.7	182	21	AAC05292
11	36	0.7	1334	21	AAA37105

12	36	0.7	1334	22	AAF54417	Primer #90 used in
13	36	0.7	2764	21	AAC59429	Human secreted pro
14	36	0.7	5490	21	AA338099	Human genomic DNA
15	36	0.7	7680	21	AA389439	14-3-3 sigma trans
16	36	0.7	14747	22	AAF63406	Human CD39 like pr
17	36	0.7	15977	22	AAF63407	Human CD39 like pr
18	36	0.7	106746	21	AAA10225	Human PCTA-1 genom
19	35	0.6	228	21	AAC22904	Human secreted pro
20	35	0.6	776	21	AAC79016	Human secreted pro
21	35	0.6	837	20	AA337525	Human secreted pro
22	35	0.6	8639	20	AA302995	Human IL-1ra BAC c
23	35	0.6	41684	21	AA28150	Human purH gene ge
24	34	0.6	152	21	AAC23861	Human secreted pro
25	34	0.6	154	21	AAC23164	Human secreted pro
26	34	0.6	161	21	AAC22955	Human secreted pro
27	34	0.6	161	21	AAC23162	Human secreted pro
28	34	0.6	163	21	AAC22526	Human secreted pro
29	34	0.6	167	21	AAC23353	Human secreted pro
30	34	0.6	177	21	AAC23115	Human secreted pro
31	34	0.6	178	21	AAC22569	Human secreted pro
32	34	0.6	179	21	AAC22939	Human secreted pro
33	34	0.6	180	21	AAC23401	Human secreted pro
34	34	0.6	181	21	AAC22805	Human secreted pro
35	34	0.6	3765	20	AA379643	Human LKB1 gene fr
36	34	0.6	6405	22	AAF97850	Human neuroblastom
37	33	0.6	249	21	AAC13408	Human secreted pro
38	33	0.6	253	21	AAC22429	Human secreted pro
39	33	0.6	260	21	AAC04921	Human secreted pro
40	33	0.6	575	21	AA81712	N. meningitidis pa
41	33	0.6	755	20	AAZ16214	Human gene express
42	33	0.6	1562	21	AAZ56728	Human transmembran
43	33	0.6	1792	21	AAC59834	Human secreted pro
44	33	0.6	1902	21	AA376936	Human ORFX ORF2491
45	33	0.6	2309	20	AAZ25332	Human chemokine al

## ALIGNMENTS

RESULT 1	Novel protein kinase cDNA, SEQ ID NO: 71.
AAF44691	
ID	AAF44691 standard; cDNA; 5163 BP.
XX	
AC	AAF44691;
XX	
DT	27-MAR-2001 (first entry)
XX	
DE	Novel protein kinase cDNA, SEQ ID NO: 71.
XX	
KW	Human; mouse; protein kinase; antiarthritic; antisclerotic; osteopathic;
KW	immunosuppressive; cardiant; renal; antiinflammatory; antiasthmatic;
KW	dermatological; antidiabetic; antifertility; gene therapy; vaccine;
KW	immune disorder; cardiovascular disease; neurodegenerative disease;
KW	cancer; autoimmune disorder; stroke; inflammatory bowel disease;
KW	inflammatory pelvic disease; multiple sclerosis; psoriasis; ss.
OS	Homo sapiens.
XX	
PN	WO200073469-A2.
XX	
PD	07-DEC-2000.
XX	
PF	26-MAY-2000; 2000WO-US14842.
XX	
PR	28-MAY-1999; 99US-0136503.
XX	
PA	(SUGR-) SUGEN INC.
XX	
PI	Plowman GD, Martinez R, Whyte D, Sudersanam S;
XX	
DR	WPI; 2001-032161/04.
XX	
DR	P-PSDB; AAB65663.
XX	

PT Nucleic acids encoding kinase polypeptides, useful for diagnosing and  
PT treating immune-related diseases and disorders, cardiovascular disease,  
PS neurodegenerative diseases and/or cancers -  
PS Disclosure; Fig 2; 310pp; English.  
XX  
CC The present sequence encodes a novel protein kinase. The nucleic acids  
CC and the protein kinases they encode may be used in the treatment and  
CC diagnosis of diseases associated with inappropriate kinase expression  
CC such as immune-related diseases and disorders, cardiovascular disease,  
CC neurodegenerative diseases and/or cancers. The nucleic acids and  
CC complementary sequences may also be used as DNA probes in diagnostic  
CC assays. The kinase polypeptides may be used as antigens in the production  
CC of antibodies of kinase expression and activity. Anti-kinase antibodies  
CC and kinase antagonists may also be used to down regulate kinase  
CC expression and activity. Diseases related to kinase expression and  
CC activity include rheumatoid arthritis, atherosclerosis, autoimmune  
CC disorders, complications of organ transplantation, myocardial infarction,  
CC immune disorders, cardiomyopathies, strokes, renal failure,  
CC oxidative-stress related disorders, chronic inflammatory bowel disease,  
CC chronic inflammatory pelvic disease, multiple sclerosis, asthma,  
CC osteoarthritis, psoriasis, rhinitis, autoimmunity, diabetes, cancers and  
CC reproductive disorders.  
XX  
SQ Sequence 5163 bp; 1490 A; 1177 C; 1283 G; 1213 T; 0 other;

Query Match 92.4%; Score 5107; DB 22; Length 5163;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 5157; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 49 ggcgcagcgtgccatggcgtggggcgcgtggggcccccggcgccggcgagcagcctc 108  
DB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
QY 109 cggagagctaccgcgaacagcagacagcagctacagccctggaggccatctacggcg 168  
DB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
QY 169 cggactccaaagacctggcgcgagcgttcgagccgtcgaagagcccccgaataca 228  
DB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
QY 229 attagttttaccctcaaggcctaactcgttgaaagatatatgtaaaagtgattga 288  
DB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
QY 289 ggggttaaatccacactacctaaccagatgtagtctcctgaaatagagttaaaatacgca 348  
DB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
QY 349 aaggtctatacaatgaaagtgaattgttaaaatctcgcctagagaagactggccaaaga 408  
DB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
QY 409 aacactgtggggaggtgatgatcttgaaactggttaccacgtgcagtcattctcagcg 468  
DB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
QY 469 agcataaagccccctcccaagtcttttcatagaagaaatgctgaaagcgggctcagg 528  
DB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
QY 529 aggagcagcagagcgtgttgagggccaaagcggaaagagcagagcagcagcgtgaaatcc 588  
DB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
QY 589 tgcatagatcagagaagaaagagataaaaagagaaaaaaagaaagaaatgg 648  
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QY 649 ctaagcaggaacatttgaaattgtagttttcacaacaaagatatacctctaagaagg 708  
DB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

DB 606 ctaagcaggaacgtttggaaattgtagtttgcataaaacaaagatcatacctctaagaagg 665  
QY 709 acccagaggacacagaacggtgctccattacatggaggtctcctgactttgtagaa 768  
DB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
DB 666 acccagaggacacagaacggtgctccattacatggaggtctcctgacttttagaa 725  
QY 769 atggttaacatcgggcaaacctcctcaggaaagtcttagcgagaacgtcagttattctgtat 828  
DB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
DB 726 atggttaacatcgggcaaacctcctcaggaaagtcttagcgagaacgtcagttattctgtat 785  
QY 829 gtaatagtagaagattctcctggctcttgtaaatctctattcaatatggggagctcgt 888  
DB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
DB 786 gtaatagtagaagattctcctggctcttgtaaatctctattcaatatggggagctcgt 845  
QY 889 atcagctcatggtgcacaaagggaatatttgagcagtgagaacacttgaaaaattag 948  
DB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
DB 846 atcagctcatggtgcacaaagggaatatttgagcagtgagaacacttgaaaaattag 905  
QY 949 tctacaatgctttggaaaacagccactggtgctttgtcttctgttatgagtggtccttc 1008  
DB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
DB 906 tctacaatgctttggaaaacagccactggtgctttgtcttctgttatgagtggtccttc 965  
QY 1009 agtgcagaaaaaatgggtccattcctaccagtcagaagaaaaagagagattgataagt 1068  
DB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
DB 966 agtgcagaaaaaatgggtccattcctaccagtcagaagaaaaagagattgataagt 1025  
QY 1069 gaaaaaacagattcaaggaaacagaaacagaatcaactcactggtaaaaattgagccatc 1128  
DB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
DB 1026 gaaaaaacagattcaaggaaacagaaacagaatcaactcactggtaaaaattgagccatc 1085  
QY 1129 caaatgtagtacgtcccttgcattcaatgaaatcctcaagagcaagcagactccatctgtgtg 1188  
DB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
DB 1086 caaatgtagtacgtcccttgcattcaatgaaatcctcaagagcaagcagactccatctgtgtg 1145  
QY 1189 acatttttagtgagacacattagtggtggtctctctgtgtgcacactgagccactcagggcc 1248  
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QY 1249 ccactcctgtgcacagcttcgcaggttacacagctcagctcctgcagggccttgattatc 1308  
DB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
DB 1206 ccactcctgtgcacagcttcgcaggttacacagctcagctcctgcagggccttgattatc 1265  
QY 1309 tgcacagcaattctgtgtgataaggtccctgagtgcaatctaatgtctgtgtgagtgag 1368  
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QY 1369 aggcacacgtcaagattacggactatagcattcttaagcgcctgcagacatttgcaggg 1428  
DB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
DB 1326 aaggcacgtcaagattacggactatagcattcttaagcgcctgcagacatttgcaggg 1385  
QY 1429 aggatgttttgagcaaaccccgagttcgttttagtgcaatgctcgtctataaaaacgg 1488  
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DB 1386 aggatgttttgagcaaaccccgagttcgttttagtgcaatgctcgtctataaaaacgg 1445  
QY 1489 ggaagaaaggagatgtttggcgtcttggcctctcgtcgtctcctcagccagcaaggaggg 1548  
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QY 1549 aatgtgagagatcccttgaccatccctagtgacttaccagtgacttcaaatatttc 1608  
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DB 1506 aatgtgagagatcccttgaccatccctagtgacttaccagtgacttcaaatatttc 1565  
QY 1609 taaagaaatgtgtgcttgatgacaaaggaaagatggagccccagcagttgttgaac 1668  
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DB 1566 taaagaaatgtgtgcttgatgacaaaggaaagatggagccccagcagttgttgaac 1625  
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QY 1729 gaggacagatattgtgagactgttattcctagcaaccggctaccagtgctcctct 1788  
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DB 1686 gaggacagatattgtgagactgttattcctagcaaccggctaccagtgctcctct 1745





CC AAC78457 and AAC44240 represent sequences used in the exemplification of  
CC the present invention.  
XX  
SQ Sequence 2200 BP; 676 A; 464 C; 495 G; 558 T; 7 other;

Query Match 35.9%; Score 1985; DB 21; Length 2200;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 2085; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

<b>Qy</b>	<b>3206</b>	cagcgacatactgaaggcaacttctcaatccgtacagccaagtgcagcagcatgtg	<b>3265</b>
<b>Dd</b>	<b>9</b>	cagcgacaatactgaaggcaacttctcaatccgtacagccaagtgcagcagcatgtg	<b>68</b>

<b>Qy</b>	<b>3266</b>	tgaaccatcatccgcgactctttaaaagacatggagctgttcagttgtgtactccactact	<b>3325</b>
<b>Dd</b>	<b>69</b>	tgaaccatcatccgcgactctttaaaagacatggagctgttcagttgtgtactccactact	<b>128</b>

Qy 3326 gcttcccgaaacagacaaaatatatgacacacgaagctgcctatttcattggaacacag 3385  
 |||||  
 Db 129 gcttcccgaaacagacaaaatatatgacacacgaagctgcctatttcattggaacacag 188  
 |||||

Qy	3386	cgggatgctggtgatgcttccttcccttttgacctcgagatccccctttgcaagaatatgtggcaag	3445
Db	189	cgggatgctggtgatgcttccttttgacctcgagatccccctttggaagaatatgtggcaag	248

Qy 3446 aaataatatattgaatttaaaacgatactgcatagaacagtgtgttcaggccgcgaagtt 3505  
|||  
Db 249 aaataatatattgaatttaaaacgatactgcatagaacagtgtgttcaggccgcgaagtt 308

QY	3506	agatcgatttcattccaaagaactctcggagtgatgcatttgatattgtcaactctaccac	3565
Db	309	agatcgatttcattccaaagaactctcggagtgatgcatttgatattgtcaactctaccac	368

QY 3566 caacagctttctgccactgtgaaattatctacactatctatgaaatcatccaagagtt 3625  
|||||  
Db 369 caacagctttctgccactgtgaaattatctacactatctatgaaatcatccaagagtt 428

QY	3626	tccagcacttcaggaaagaattacagtatttatttgaccatataccattgtttgaaagc	3685
Db	429	tccagcacttcaggaaagaattacagtatttatttgaccatataccattgtttgaaagc	488

QY 3686 aatactcttacactgtgggatccacagaagataaaactcagtcgaagtctacattattctgtgta 3745  
|||||  
Db 489 aatactcttacactgtgggatccacagaagataaaactcagtcgaagtctacattattctgtgta 548

QY 3746 tgatgctgtgacagagaagctgacgagagagagaagtgaagctaaatttgtatctgtc 3805  
|||||  
Db 549 tgatgctgtgacagagaagctgacgagagagagaagtgaagctaaatttgtatctgtc 608

[illegible]

QY 3866 agatottatgccacaacaataattcattaataaacaagaacagggtattgcacagttggt 3925  
|||||  
Db 669 agatottatgccacaacaataattcattaataaacaagaacagggtattgcacagttggt 728

QY	3926	gaagtatggcttaagacacctagagaggttcttgtagactgttgaagaactcggcatcaa 	3985
Db	729	gaagtatggcttaagacacctagagaggttcttgtagactgttgaagaactcgcattca 	789

QY 3986 gttacaggctcttgatcaatttgggcttggtttacaaggtagcagcacaatggaatcat 4045  
|||||  
Db 789 gttacaggctcttgatcaatttgggcttggtttacaaggtagcagcacaatggaatcat 948  
|||||

QY 4046 cttccagtttggctttcatcaacgaaggcacaaagggctgtaccctgaaatcctcgcagc 4105  
|||||  
Db 849 ctccagtttggctttcatcaacgaaggcacaaagggctgtaccctgaaatcctcgcagc 908

[illegible][illegible]

QY	4226	ggaggaatctgttacaataagctccttgtagactcctggttgttaagtgttggtcaagatgtc	4285
Dd	1029	ggaggaatctgttacaataagctccttgtagactcctggttgttaagtktgtgcagaatctc	1088

[illegible]

QY 4346 catgtacgactggtcacagctcccaaggagggaattacaagagtgactgcagacatcatgaaat 4405  
|||||  
Db 1149 catgtacgactggtcacagctcccaaggagggaattacaagagtgactgcagacatcatgaaat 1208

Qy	4406	cac	tat	gtg	gcc	ctt	gtc	tgc	gata	aaag	aaag	agcc	atg	tca	agg	ttt	ctt	cga	4465
Db	1209	cac <th>tat</th> <th>gtg</th> <th>gcc</th> <th>ctt</th> <th>gtc</th> <th>tgc</th> <th>gata</th> <th>aaag</th> <th>aaag</th> <th>agcc</th> <th>atg</th> <th>tca</th> <th>agg</th> <th>ttt</th> <th>ctt</th> <th>cga</th> <th>1268</th>	tat	gtg	gcc	ctt	gtc	tgc	gata	aaag	aaag	agcc	atg	tca	agg	ttt	ctt	cga	1268

Qy 4466 gaaggaagcagacagagaagcgtgtgtctggagactgaacttgtggaccattgtactcga 4525  
+++++  
Db 1269 gaaggaagcagacagagaagcgtgtctggagactgaacttgtggaccattgtactcga 1328

[illegible]

QY 4586 agtgc<sup>aa</sup>aatctgaagggtcatttttctaatgcttcagggtttgtttg<sup>aa</sup>aatccatgagc 4645  
 |||||  
 Db 1389 agtgc<sup>aa</sup>aatctgaagggtcatttttctaatgcttcagggtttgtttg<sup>aa</sup>aatccatgagc 1448

QY 4646 aaacagtgttcccatgttgagtgtagcccccggagagaagctgtcagccagactaggag 4705  
|||||  
Db 1449 aaacagtgttcccatgttgagtgtagcccccggagagaagctgtcagccagactaggag 1508

QY	4706	gcgc	tata	aaac	tcag	gtaca	aaac	tcga	actc	gcac	ctcc	cttg	cca	actt	acac	aga	4765
Db	1509	gcgc	tata <td>aaac</td> <td>tcag</td> <td>gtaca <td>aaac</td> <td>tcga</td> <td>actc <td>gcac</td> <td>ctcc <td>cttg <td>cca</td> <td>actt <td>acac <td>aga <td>1568</td> </td></td></td></td></td></td></td>	aaac	tcag	gtaca <td>aaac</td> <td>tcga</td> <td>actc <td>gcac</td> <td>ctcc <td>cttg <td>cca</td> <td>actt <td>acac <td>aga <td>1568</td> </td></td></td></td></td></td>	aaac	tcga	actc <td>gcac</td> <td>ctcc <td>cttg <td>cca</td> <td>actt <td>acac <td>aga <td>1568</td> </td></td></td></td></td>	gcac	ctcc <td>cttg <td>cca</td> <td>actt <td>acac <td>aga <td>1568</td> </td></td></td></td>	cttg <td>cca</td> <td>actt <td>acac <td>aga <td>1568</td> </td></td></td>	cca	actt <td>acac <td>aga <td>1568</td> </td></td>	acac <td>aga <td>1568</td> </td>	aga <td>1568</td>	1568

QY 4766 aagcagtgaaattgaaattctggtgtggtatctacccaagaaacaaatattacagttttt 4825  
|||||  
Db 1569 aagcagtgaaattgaaattctggtgtggtatctacccaagaaacaaatattacagttttt 1628

QY	4826	atcattagagtgggatgctgatgaacagggaatttaacacaactgtgaagcagctgctgc	4885
Dd	1629	atcattagagtgggatgctgatgaacaggcatttaacacaactgtgaagcagctgctgc	1688

QY 4886 agccctgcacaaagataacctcaattagctgtgatgaattataacatcaagt 4945  
|||||  
Db 1689 agccctgcacaaagcaaaatataccctcaattagctgtgatgaattataacatcaagt 1748

Qy 4946 agaaaaaaggctgtctgtctatttctgtacagctatagagatgactactacagaatctt 5005  
|||||  
Db 1749 agaaaaaaggctctctctatcttctacagctatagagatgactactacagaatctt 1809

QY 5006 attttaaccctaaagaactgtcgttaacctcattcaaacagacagagcgttatactggaa 5065  
|||||  
pb 1809 attttaaccctaaagaactgtcgttaacctcattcaaacagacagagcgttatactggaa 1869  
|||||

Qy 5066 taatggaatgtgtacattcatcataattaaattaaattctaaagaaggctgggtgc 5125  
|||||  
pb 1869 taatggaatgtttotacattcatcataattttaaattaaattctaaagaaggctgaatttc 1928  
|||||

Qy 5126 agtggctcacactttaatccccagcactttgggaagccaaggcaggaaagactgcttgaaa 5185  
|||||  
Db 1929 agtggctcacacactttaatccccagcactttgggaagccaaggcaggaaagactgcttgaaa 1988  
|||||

Qy 5186 ccaggagtttgagaccgcctgagcaacaaagcaagacccatctctataaaaaactaaa 5245  
 |||||  
 Ph 1989 ccaggagtttgaagccaccccttagcagcaaaagccacccatctctataaaaaactaaa 2049  
 |||||

100

QY 5246 aaattagttggcattggtgacacatgctgtgtagctccagctactcca 5292  
 |||||  
 Db 2049 aaattagttggcattggtgacacatgctgtgtagctccagctactcca 2095

## RESULT 3

AAC76970

ID AAC76970 standard; cDNA; 2422 BP.

XX AAC76970;

XX

DT 08-FEB-2001 (first entry)

XX

DE Human ORFX ORF5252 polynucleotide sequence SEQ ID NO:5049.

XX

KW Human; open reading frame; ORFX; detection; cytostatic; hepatotropic;  
 KW vulnary; antipsoriatic; antiparkinsonian; nootropic; neuroprotective;  
 KW anticonvulsant; osteopathic; antiarthritic; immunosuppressant; cardiant;  
 KW immunostimulant; thrombolytic; coagulant; vasotropic; antidiabetic;  
 KW hypotensive; dermatological; immunosuppressive; antiinflammatory;  
 KW antiviral; antibacterial; antifungal; antirheumatic; antithyroid;  
 KW antianaemic; gene therapy; cancer; proliferative disorder; hypertension;  
 KW neurodegenerative disorder; osteoarthritis; graft vs host disease;  
 KW cardiovascular disease; diabetes mellitus; hypothyroidism; SCID; AIDS;  
 KW cholesterol ester storage; systemic lupus erythematosus; infection;  
 KW severe combined immunodeficiency; malaria; autoimmune disease; asthma;  
 KW allergy; aplastic anaemia; nocturnal haemoglobinuria; burn; wound;  
 KW bone damage; cartilage damage; antinflammatory disease; coagulation;  
 KW thrombosis; contraceptive; ss.

XX Homo sapiens.

XX WO200058473-A2.

XX

XX 05-OCT-2000.

XX

XX 31-MAR-2000; 2000WO-US08621.

XX

XX 31-MAR-1999; 99US-0127607.

XX 02-APR-1999; 99US-0127636.

XX 05-APR-1999; 99US-0127728.

XX 30-MAR-2000; 2000US-0540763.

XX (CURA-) CURAGEN CORP.

XX

XX Shimkets RA, Leach M;

XX

XX WPI; 2000-602362/57.

XX P-PSDB; AAB42761.

XX

XX Novel nucleic acids and peptides derived from open reading frame X,

XX useful for treating e.g. cancers, proliferative disorders,

XX neurodegenerative disorders and cardiovascular disease -

XX

XX Claim 5; Page 4233-4235; 5507pp; English.

XX

XX AAC74446 to AAC77606 encode the proteins given in AAB40237 to AAB43397,  
 XX which represent the human ORFX open reading frames 1 to 3161. The ORFX  
 XX sequences have activities such as: cytostatic; hepatotropic; vulnary;  
 XX antipsoriatic; antiparkinsonian; nootropic; neuroprotective;  
 XX osteopathic; anticonvulsant; antiarthritic; immunosuppressant;  
 XX immunostimulant; cardiant; thrombolytic; coagulant; vasotropic;  
 XX antidiabetic; hypotensive; dermatological; immunosuppressive;  
 XX antiinflammatory; antibacterial; antiviral; antifungal; antirheumatic;  
 XX antithyroid; and antianaemic. The sequences can be used for determining  
 XX the presence of or predisposition to, or preventing or treating  
 XX pathological conditions associated with an ORFX-associated disorder. The  
 XX nucleic acids can be used to express ORFX proteins in gene therapy  
 XX vectors. The proteins and nucleic acids may be used to treat cancers,  
 XX proliferative disorders, neurodegenerative disorders, osteoarthritis,  
 XX graft vs host disease, cardiovascular disease, diabetes mellitus,  
 XX hypertension, hypothyroidism, cholesterol ester storage, systemic lupus  
 XX erythematosus, severe combined immunodeficiency (SCID), AIDS, viral,

CC bacterial or fungal infection, malaria, autoimmune disorders, asthma,  
 CC allergies, aplastic anaemia, burns, wounds, bone and cartilage damage,  
 CC nocturnal haemoglobinuria, antiinflammatory disease; to enhance  
 CC coagulation; to inhibit thrombosis; and as a contraceptive.

XX Sequence 2422 BP; 789 A; 489 C; 518 G; 619 T; 7 other;

Query Match 28.7%; Score 1585; DB 21; Length 2422;

Best Local Similarity 99.9%; Pred. No. 0;

Matches 1635; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3884 aaattcattataaaacagaaacacaggtattgacagctggtgagtagtgccttaaaaga 3943

Db 732 aaattcattataaaacagaaacacaggtattgacagctggtgagtagtgccttaaaaga 791

QY 3944 cctagagaggttggactgttgaagaaactcgccatcaagtacaggtcttgatcaa 4003

Db 792 cctagagaggttggactgttgaagaaactcgccatcaagtacaggtcttgatcaa 851

QY 4004 ttgggcttgggtttacaaaggtgcagcagcaaatggaaatcattctccagtttgggttt 4063

Db 852 ttgggcttgggtttacaaaggtgcagcagcaaatggaaatcattctccagtttgggttt 911

QY 4064 catcaaacgagggcaaaagggctgtacctgaaatcctcgagctggagcagatagacct 4123

Db 912 catcaaacgagggcaaaagggctgtacctgaaatcctcgagctggagcagatagacct 971

QY 4124 gctgattccccagtttagagggccacaaagctctggggcaggtccacgtccattggggt 4183

Db 972 gctgattccccagtttagagggccacaaagctctggggcaggtccacgtccattggggt 1031

QY 4184 cagcatagctatagacaagatatctgctgctctcctcaacatggaggaatctgttacaat 4243

Db 1032 cagcatagctatagacaagatatctgctgctctcctcaacatggaggaatctgttacaat 1091

QY 4244 aagctcttgaacctctcctggttgaagtgttggctcagatgtctatgtccagggccatcaa 4303

Db 1092 aagctcttgaacctctcctggttgaagtgttggctcagatgtctatgtccagggccatcaa 1151

QY 4304 cctaaccagaaaactctggacagcagcagcatcacagcagaaatcatgtacgactggtcaca 4363

Db 1152 cctaaccagaaaactctggacagcagcagcatcacagcagaaatcatgtacgactggtcaca 1211

QY 4364 gtcccaagagggaattacaagagtagctgcagacatcatgaaatcaacctatgtggcccttgt 4423

Db 1212 gtcccaagagggaattacaagagtagctgcagacatcatgaaatcaacctatgtggcccttgt 1271

QY 4424 ctccgataaaagagggaagccatgtcaaggttaagttcttcgagaggaagaaagcagacaga 4483

Db 1272 ctccgataaaagagggaagccatgtcaaggttaagttcttcgagaggaagaaagcagacaga 1331

QY 4484 gaagcgtgtcgtggagactgaacttgtggacctgtactgcagaaactgaggaactaaagt 4543

Db 1332 gaagcgtgtcgtggagactgaacttgtggacctgtactgcagaaactgaggaactaaagt 1391

QY 4544 cactgatgaaaggaattgagcagagaagcttccogataatcttcagtcgaaaaatctgaaagg 4603

Db 1392 cactgatgaaaggaattgagcagagaagcttccogataatcttcagtcgaaaaatctgaaagg 1451

QY 4604 gtccatttctaagtctcaggttttttgaaatccatgagcaacaggtgtcccttgt 4663

Db 1452 gtccatttctaagtctcaggttttttgaaatccatgagcaacaggtgtcccttgt 1511

QY 4664 gagtgtgtagccccggagaaagctgtcagccagcactgagggcgctatgaaactcaggt 4723

Db 1512 gagtgtgtagccccggagaaagctgtcagccagcactgagggcgctatgaaactcaggt 1571

QY 4724 acaaatcgacttcagacctcccttgcacaaacttaccatagaaaaagcagtgaaattgaaat 4783

Db 1572 acaaatcgacttcagacctcccttgcacaaacttaccatagaaaaagcagtgaaattgaaat 1631

QY 4784 tctggtgtggatctaccaccaagaaaaataattacagtttttttatcattagagtgggtgc 4843









CC specification (see AA297140-297478) and detecting duplex formation. The  
 CC products and methods of the invention can be used for the diagnosis,  
 CC prognosis, and treatment of cancer, tumour progression,  
 CC hyperproliferative cell growth, and accompanying physical and biological  
 CC manifestations. They can be used particularly for prostatic disorders  
 CC such as metastatic prostate cancer, localised prostate cancer, or benign  
 CC prostate hyperplasia (BPH).  
 XX  
 SQ Sequence 730 BP; 223 A; 148 C; 167 G; 180 T; 12 other;

Query Match 0.8%; Score 45; DB 21; Length 730;  
 Best Local Similarity 100.0%; Pred. No. 7.1e-11;  
 Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5246 aaattagttggcattggtggcacatgctgtagtcctccagctactc 5290  
 ||||||||||||||||||||||||||||||||||||||||||||||||  
 Db 335 aaattagttggcattggtggcacatgctgtagtcctccagctactc 379

RESULT 7  
 AA297407  
 ID AA297407 standard; cDNA; 745 BP.

XX AC AA297407;

XX DT 18-APR-2000 (first entry)

XX DE Human prostate cancer differentially expressed gene #268.

XX KW Prostate cancer specific gene; cancer; tumour progression; diagnosis;  
 KW hyperproliferative cell growth; prostatic disorder; treatment;  
 KW metastatic prostate cancer; benign prostate hyperplasia; BPH; ss.

XX OS Homo sapiens.

XX PN W09964594-A2.

XX PD 16-DEC-1999.

XX PF 10-JUN-1999; 99WO-US13181.

XX PR 11-JUN-1998; 98US-0088877.

XX PR 09-JUN-1999; 99US-0088877.

XX PA (CHIR ) CHIRON CORP.

XX PI Astel JH, Carroll E, Endege WO, Ford DM, Monahan JE, Schlegel R;  
 PI Steinmann KE, Zhang J;

XX DR WPI; 2000-116541/10.

XX PT New isolated prostate cancer specific nucleic acids, used to develop  
 PT products for the diagnosis and treatment of cancer -

XX PS Claim 2; Page 183; 212pp; English.

XX CC This sequence represents a prostate cancer specific nucleic acid  
 CC sequence. The invention relates to a method for diagnosing cancer,  
 CC tumour progression, hyperproliferative cell growth or accompanying  
 CC biological and physical manifestations. The method involves contacting  
 CC the biological sample with a probe that comprises a sequence capable of  
 CC hybridising to any of the 339 nucleotide sequences given in the  
 CC specification (see AA297140-297478) and detecting duplex formation. The  
 CC products and methods of the invention can be used for the diagnosis,  
 CC prognosis, and treatment of cancer, tumour progression,  
 CC hyperproliferative cell growth, and accompanying physical and biological  
 CC manifestations. They can be used particularly for prostatic disorders  
 CC such as metastatic prostate cancer, localised prostate cancer, or benign  
 CC prostate hyperplasia (BPH).  
 XX

SQ Sequence 745 BP; 232 A; 148 C; 174 G; 180 T; 11 other;

Query Match 0.8%; Score 45; DB 21; Length 745;  
 Best Local Similarity 100.0%; Pred. No. 7.1e-11;  
 Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5246 aaattagttggcattggtggcacatgctgtagtcctccagctactc 5290  
 ||||||||||||||||||||||||||||||||||||||||||||||||  
 Db 356 aaattagttggcattggtggcacatgctgtagtcctccagctactc 400

RESULT 8  
 AAC25679/C  
 ID AAC25679 standard; cDNA; 173 BP.  
 XX AC AAC25679;  
 XX DT 06-OCT-2000 (first entry)  
 XX DE Human secreted protein 5' EST, SEQ ID NO: 29754.

XX KW Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;  
 KW gene therapy; chromosome mapping; ss.

XX OS Homo sapiens.

XX PN EP1033401-A2.

XX PD 06-SEP-2000.

XX PF 21-FEB-2000; 2000EP-0200610.

XX PR 26-FEB-1999; 99US-0122487.

XX PA (GEST ) GENSET.

XX PI Dumas Milne Edwards J, Duclert A, Giordano J;

XX DR WPI; 2000-500381/45.

XX PT New nucleic acid that is a 5' expressed sequence tag (5' EST) for  
 PT obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for  
 PT diagnostic, forensic, gene therapy and chromosome mapping procedures -

XX PS Claim 1; SEQ ID 29754; 71pp + CD-ROM; English.

XX CC The present sequence is one of a large number of 5' ESTs derived from  
 CC mRNAs encoding secreted proteins. No ORF has yet been conclusively  
 CC identified within the present sequence. The 5' ESTs were prepared from  
 CC total human RNAs or polyA+ RNAs derived from 30 different tissues. EST  
 CC sequences usually correspond mainly to the 3' untranslated region (UTR)  
 CC of the mRNA because they are often obtained from oligo-dT primed cDNA  
 CC libraries. Such ESTs are not well suited for isolating cDNA sequences  
 CC derived from the 5' ends of mRNAs and even in those cases where longer  
 CC cDNA sequences have been obtained, the full 5' UTR is rarely included.  
 CC 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be  
 CC used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used  
 CC in diagnostic, forensic, gene therapy and chromosome mapping procedures.  
 CC they are used to obtain upstream regulatory sequences and to design  
 CC expression and secretion vectors.  
 XX

SQ Sequence 173 BP; 37 A; 46 C; 39 G; 46 T; 5 other;

Query Match 0.7%; Score 41; DB 21; Length 173;  
 Best Local Similarity 100.0%; Pred. No. 5.2e-09;  
 Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5325 gttgagctgctgactgactgactgactgactgactgactc 5365  
 ||||||||||||||||||||||||||||||||||||||||||||||||  
 Db 92 GTTGAGGCTGAGTGAGTGTGACTGCGGCACTGCACTCCA 52

RESULT 9

AAC79767  
ID AAC79767 standard; cDNA; 986 BP.

AC AAC79767;

DT 12-FEB-2001 (first entry)

DE Human secreted protein gene 28 SEQ ID NO:38.

XX Human: secreted protein; diagnosis; antiarthritic; immunosuppressive;  
XX antirheumatic; antiproliferative; cytostatic; cardiant; vasotropic;  
KW cerebroprotective; neurotropic; neuroprotective; antibacterial; virucide;  
KW fungicide; ophthalmological; vulnary; gene therapy; autoimmune disease;  
KW hyperproliferative disorder; cardiovascular disorder; angiogenesis;  
KW cerebrovascular disorder; nervous system disorder; infection;  
KW wound healing; food additive; preservative; skin aging; ss.

XX HOMO sapiens.

XX WO200058494-A1.

XX 05-OCT-2000.

XX 23-MAR-2000; 2000WO-US07578.

XX 26-MAR-1999; 99US-0126507.

XX 07-JAN-2000; 2000US-0174872.

XX (HUMA-) HUMAN GENOME SCI INC.

XX Rosen CA, Ruben SM, Komatsoulis G;

XX WPI; 2000-594644/56.

XX P-PSDB; AAB44722.

XX New nucleic acid molecules encoding 50 human secreted proteins for  
PT diagnosing, preventing, treating or ameliorating medical conditions and  
PT used as food additives or preservatives -

XX Claim 1; Page 327; 371pp; English.

XX The polynucleotide sequences given in AAC79740 to AAC79789 encode the  
CC human secreted proteins given in AAB44695 to AAB44744. AAB44745 to  
CC AAB44760 represent human secreted polypeptide sequences and proteins  
CC homologous to them, which are given in the exemplification of the present  
CC invention. Human secreted proteins have activities based on the tissues  
CC and cells the genes are expressed in. Examples of activities include:  
CC antiarthritic; immunosuppressive; antirheumatic; antiproliferative;  
CC cytostatic; cardiant; vasotropic; cerebroprotective; neurotropic;  
CC neuroprotective; antibacterial; virucide; fungicide; ophthalmological;  
CC and vulnary. The polynucleotides and polypeptides can be used to  
CC prevent, treat or ameliorate a medical condition in e.g. humans, mice,  
CC rabbits, goats, horses, cats, dogs, chickens or sheep. They are also used  
CC in diagnosing a pathological condition or susceptibility to a  
CC pathological condition. Disorders which are diagnosed or treated include  
CC autoimmune diseases, hyperproliferative disorders, cardiovascular  
CC disorders, cerebrovascular disorders, angiogenesis, nervous system  
CC disorders, infections caused by bacteria, viruses and fungi and ocular  
CC disorders. The polypeptides can also be used to aid wound healing and  
CC epithelial cell proliferation, to prevent skin aging due to sunburn, to  
CC maintain organs before transplantation, for supporting cell culture of  
CC primary tissues, to regenerate tissues and in chemotaxis. The  
CC polypeptides can also be used as a food additive or preservative to  
CC increase or decrease storage capabilities, fat content, lipid, protein,  
CC carbohydrate, vitamins, minerals, cofactors and other nutritional  
CC components. AAC79731 to AAC79739 and AAB44694 represent sequences used in  
CC the exemplification of the present invention.

XX Sequence 986 BP; 277 A; 225 C; 265 G; 219 T; 0 other;

Query Match 0.7%; Score 37; DB 21; Length 986;  
Best Local Similarity 100.0%; Pred. No. 3.8e-07;

Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 5254 tggcattggtggcacatgctgtagctccagctactc 5290

|||||

Db 820 tggcattggtggcacatgctgtagctccagctactc 856

RESULT 10

AAC05292/c

ID AAC05292 standard; cDNA; 182 BP.

XX AAC05292;

XX 06-OCT-2000 (first entry)

XX Human secreted protein 5' EST, SEQ ID NO: 9367.

XX Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;  
KW gene therapy; chromosome mapping; ss.

XX HOMO sapiens.

XX EPI033401-A2.

XX 06-SEP-2000.

XX 21-FEB-2000; 2000EP-0200610.

XX 26-FEB-1999; 99US-0122487.

XX (GEST ) GENSET.

XX Dumas Milne Edwards J, Duclert A, Giordano J;

XX WPI; 2000-500381/45.

XX New nucleic acid that is a 5' expressed sequence tag (5' EST) for  
PT obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for  
PT diagnostic, forensic, gene therapy and chromosome mapping procedures -

XX Claim 1; SEQ ID 9367; 71pp + CD-ROM; English.

XX The present sequence is one of a large number of 5' ESTs derived from  
CC mRNAs encoding secreted proteins. No ORF has yet been conclusively  
CC identified within the present sequence. The 5' ESTs were prepared from  
CC total human RNAs or polyA+ RNAs derived from 30 different tissues. EST  
CC sequences usually correspond mainly to the 3' untranslated region (UTR)  
CC of the mRNA because they are often obtained from oligo-dT primed cDNA  
CC libraries. Such ESTs are not well suited for isolating cDNA sequences  
CC derived from the 5' ends of mRNAs and even in those cases where longer  
CC cDNA sequences have been obtained, the full 5' UTR is rarely included.  
CC 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be  
CC used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used  
CC in diagnostic, forensic, gene therapy and chromosome mapping procedures.  
CC They are used to obtain upstream regulatory sequences and to design  
CC expression and secretion vectors.

XX Sequence 182 BP; 29 A; 50 C; 41 G; 62 T; 0 other;

Query Match 0.7%; Score 36; DB 21; Length 182;  
Best Local Similarity 100.0%; Pred. No. 1.1e-06;  
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 5255 gggcattggtggcacatgctgtagctccagctactc 5290

|||||

Db 158 GGGCATGGTGCACATGCTCTAGTCCAGCTACTC 123

RESULT 11

AAA37105

ID AAA37105 standard; cDNA; 1334 BP.

XX

AC	AAA37105;	
XX		
DT	08-AUG-2000	(first entry)
XX		
DE	Human PRO1482	(UNC751) cDNA sequence SEQ ID NO:301.
XX		
KW	Human; PRO polypeptide; membrane bound protein; receptor; diagnosis;	
KW	transmembrane; secretion; immunoadhesion; pharmaceutical; screening;	
KW	ss.	
XX		
OS	Homo sapiens.	
XX		
PN	WO200012708-A2.	
XX		
PD	09-MAR-2000.	
XX		
PF	01-SEP-1999;	99WO-US20111.
XX		
PR	01-SEP-1998;	98US-0098716.
PR	01-SEP-1998;	98US-0098749.
PR	01-SEP-1998;	98US-0098750.
PR	02-SEP-1998;	98US-0098803.
PR	02-SEP-1998;	98US-0098821.
PR	02-SEP-1998;	98US-0098843.
PR	09-SEP-1998;	98US-0099536.
PR	09-SEP-1998;	98US-0099596.
PR	09-SEP-1998;	98US-0099598.
PR	09-SEP-1998;	98US-0099602.
PR	09-SEP-1998;	98US-0099642.
PR	10-SEP-1998;	98US-0099741.
PR	10-SEP-1998;	98US-0099754.
PR	10-SEP-1998;	98US-0099763.
PR	10-SEP-1998;	98US-0099792.
PR	10-SEP-1998;	98US-0099808.
PR	10-SEP-1998;	98US-0099812.
PR	10-SEP-1998;	98US-0099815.
PR	10-SEP-1998;	98US-0099816.
PR	15-SEP-1998;	98US-0100385.
PR	15-SEP-1998;	98US-0100388.
PR	15-SEP-1998;	98US-0100390.
PR	16-SEP-1998;	98US-0100584.
PR	16-SEP-1998;	98US-0100627.
PR	16-SEP-1998;	98US-0100661.
PR	16-SEP-1998;	98US-0100662.
PR	16-SEP-1998;	98US-0100664.
PR	17-SEP-1998;	98US-0100683.
PR	17-SEP-1998;	98US-0100684.
PR	17-SEP-1998;	98US-0100710.
PR	17-SEP-1998;	98US-0100711.
PR	17-SEP-1998;	98US-0100919.
PR	17-SEP-1998;	98US-0100930.
PR	18-SEP-1998;	98US-0100848.
PR	18-SEP-1998;	98US-0100849.
PR	18-SEP-1998;	98US-0101014.
PR	18-SEP-1998;	98US-0101068.
PR	18-SEP-1998;	98US-0101071.
PR	23-SEP-1998;	98US-0101279.
PR	23-SEP-1998;	98US-0101471.
PR	23-SEP-1998;	98US-0101472.
PR	23-SEP-1998;	98US-0101474.
PR	23-SEP-1998;	98US-0101475.
PR	23-SEP-1998;	98US-0101476.
PR	23-SEP-1998;	98US-0101477.
PR	23-SEP-1998;	98US-0101479.
PR	24-SEP-1998;	98US-0101736.
PR	24-SEP-1998;	98US-0101741.
PR	24-SEP-1998;	98US-0101743.
PR	24-SEP-1998;	98US-0101915.
PR	24-SEP-1998;	98US-0101916.
PR	29-SEP-1998;	98US-0102207.
PR	29-SEP-1998;	98US-0102240.
PR	29-SEP-1998;	98US-0102307.
PR	29-SEP-1998;	98US-0102330.

DR P-PSDB; AAY99423.  
XX New mammalian DNA sequences encoding transmembrane, receptor or  
PT secreted PRO polypeptides, useful for screening of potential peptide or  
PT small molecule inhibitors of the relevant receptor/ligand interactions  
XX  
XX Claim 2; Fig 167; 773pp; English.  
XX  
CC AAA37022 to AAA37144 encode the new isolated human transmembrane,  
CC receptor or secreted PRO polypeptides given in AAY99340 to AAY99462. The  
CC transmembrane and receptor PRO proteins can be used for screening of  
CC potential peptide or small molecule inhibitors of the relevant  
CC receptor/ligand interactions. The polypeptides and nucleotide sequences  
CC encoding then have various industrial applications, including uses as  
CC pharmaceutical and diagnostic agents. AAA37145 to AAA37330 represent  
CC PCR primers and hybridisation probes used in the isolation of the PRO  
CC polypeptides from the present invention.  
XX  
SQ Sequence 1334 BP; 299 A; 309 C; 336 G; 390 T; 0 other;  
  
Query Match 0.7%; Score 36; DB 21; Length 1334;  
Best Local Similarity 100.0%; Pred. No. 1.1e-06;  
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 5254 tgggcatgtggcaccatgctgtagtcctccagctact 5289  
|||||  
Db 1177 tgggcatgtggcaccatgctgtagtcctccagctact 1212  
  
RESULT 12  
AAF54417  
ID AAF54417 standard; DNA; 1334 BP.  
XX  
AC AAF54417;  
XX  
DT 02-APR-2001 (first entry)  
XX  
DE Primer #90 used in the identification of proteins.  
XX  
XX Secreted; transmembrane; gene therapy; ss.  
XX  
XX Unidentified.  
XX  
XX WO200078961-A1.  
XX  
XX 28-DEC-2000.  
XX  
XX 18-FEB-2000; 2000WO-US04342.  
XX  
XX 23-JUN-1999; 99US-0141037.  
XX  
XX 20-JUL-1999; 99US-0144758.  
XX  
XX 26-JUL-1999; 99US-0145698.  
XX  
XX 01-SEP-1999; 99WO-US20111.  
XX  
XX 29-OCT-1999; 99US-0162506.  
XX  
XX 30-NOV-1999; 99WO-US28313.  
XX  
XX 02-DEC-1999; 99WO-US28551.  
XX  
XX 16-DEC-1999; 99WO-US30095.  
XX  
XX 03-JAN-2000; 2000WO-US00219.  
XX  
XX 06-JAN-2000; 2000WO-US00376.  
XX  
XX (GETH ) GENENTECH INC.  
XX  
XX Baker KP, Botstein D, Desnoyers L, Eaton DL, Ferrara N, Fong S;  
PI Gao W, Goddard A, Godowski PJ, Grimaldi CU, Gurney AL, Hillan KJ;  
PI Pan J, Paoni NF, Roy MA, Smith V, Stewart TA, Tumas D;  
PI Watanabe CK, Williams PM, Wood WT;  
XX  
XX WPI; 2001-071395/08.  
XX  
XX Secreted and transmembrane proteins and nucleic acids designated PRO,  
PT useful as hybridization probes, in chromosome and gene mapping and gene  
PT therapy -

XX Example 86; Page 459; 787pp; English.  
XX  
XX The present invention relates to secreted and transmembrane proteins.  
CC These proteins and the DNA encoding them may be used as hybridization  
CC probes, in chromosome and gene mapping and in the generation of  
CC anti-sense RNA and DNA. They may also be used to generate either  
CC transgenic animals or knockout animals which are in turn useful for  
CC development and screening of therapeutically useful reagents.  
CC The nucleic acids may also be used in gene therapy.  
XX  
SQ Sequence 1334 BP; 299 A; 309 C; 336 G; 390 T; 0 other;  
  
Query Match 0.7%; Score 36; DB 22; Length 1334;  
Best Local Similarity 100.0%; Pred. No. 1.1e-06;  
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 5254 tgggcatgtggcaccatgctgtagtcctccagctact 5289  
|||||  
Db 1177 tgggcatgtggcaccatgctgtagtcctccagctact 1212  
  
RESULT 13  
AAC59429/c  
ID AAC59429 standard; cDNA; 2764 BP.  
XX  
AC AAC59429;  
XX  
DT 02-FEB-2001 (first entry)  
XX  
DE Human secreted protein cDNA #38.  
XX  
XX Cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral;  
KW antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer;  
KW vulnary; anticonvulsant; antibacterial; antifungal; antiparasitic;  
KW cardiant; gene therapy; cancer; immune disorder; cardiovascular disorder;  
KW neurological disease; infection; human; secreted protein; ss.  
XX  
XX Homo sapiens.  
XX  
XX WO200056765-A1.  
XX  
XX 28-SEP-2000.  
XX  
XX 16-MAR-2000; 2000WO-US06823.  
XX  
XX 19-MAR-1999; 99US-0125364.  
XX  
XX 08-DEC-1999; 99US-0169623.  
XX  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX  
XX Rosen CA, Ruben SM, Komatsoulis G;  
XX  
XX WPI; 2000-602215/57.  
XX  
XX P-PSDB; AAB33997.  
XX  
XX Nucleic acid molecules encoding human secreted proteins, used in  
PT preventing, treating or ameliorating a disorder, e.g. Alzheimer's and  
PT Parkinson's diseases and cancers -  
XX  
XX Claim 1; Page 351-352; 410pp; English.  
XX  
XX The invention relates to the isolation of genes AAC59392-C59439 encoding  
CC 48 human secreted proteins AAB33963-B34006. The genes can be used to  
CC generate fusion proteins by linking to the gene for the human  
CC immunoglobulin G Fc portion (SEQID1) for increasing the stability of  
CC the fusion protein as compared to the human protein only. The genes and  
CC proteins are useful for preventing, ameliorating or treating medical  
CC conditions, e.g. by protein or gene therapy. The genes are isolated  
CC from a range of human tissues disclosed in the specification. The  
CC nucleic acids, proteins, antibodies and (ant)agonists are useful in  
CC the diagnosis, treatment and prevention of: (a) cancer, e.g. breast

CC and ovarian cancer, and other cancers of the adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver, lung, or urogenital;  
 CC (b) immune disorders e.g. Addison's disease, allergies, autoimmune haemolytic anemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c) cardiovascular disorders such as myocardial ischaemias; (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f) infectious diseases such as viral, bacterial, fungal and parasitic infections.  
 CC  
 SQ Sequence 2764 BP; 688 A; 672 C; 673 G; 731 T; 0 other;

Query Match 0.7%; Score 36; DB 21; Length 2764;  
 Best Local Similarity 100.0%; Pred. No. 1.1e-06;  
 Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5254 tggcatggtggcacatgctgtagtcacagctact 5289  
 |||||  
 Db 1523 TGGGCATGGTGGCACATGCTGTAGTCCAGCTACT 1488

RESULT 14  
 AAA38099/c  
 ID AAA38099 standard; DNA; 5490 BP.  
 XX  
 AC AAA38099;  
 XX  
 DT 24-AUG-2000 (first entry)  
 XX  
 DE Human genomic DNA fragment containing the atpb2 gene.  
 XX  
 KW Na/K-ATPase beta2 subunit; atpb2; p53; polymorphism; lose heterozygosity;  
 KW detect gene deletion; cancer; tumour; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 PN JP2000093185-A.  
 XX  
 PD 04-APR-2000.  
 XX  
 PF 25-SEP-1998; 98JP-0288796.  
 XX  
 PR 25-SEP-1998; 98JP-0288796.  
 XX  
 PA (KOKU-) KOKURITSU GAN CENT SOCHO.  
 PA (BMLB-) BML KK.  
 XX  
 DR WPI; 2000-342477/30.  
 XX

PT Detection of pathogenic gene deletion to assess the correlation between  
 PT tumour cellularity and disappearance of heterozygosity, useful in  
 PT predicting a cancerous genotype -  
 XX  
 PS Claim 3; Fig 1; 20pp; Japanese.  
 XX  
 CC This sequence represents a fragment of human genomic DNA, containing the  
 CC Na/K-ATPase beta2 subunit gene (atpb2). The fragment is used in a method  
 CC for the detection of gene deletion in a gene sample-derived cell by  
 CC detecting the disappearance of heterozygosity in a gene polymorphism  
 CC marker. The invention relates to detection of gene deletion in relation  
 CC to the disappearance of heterozygosity in a gene polymorphism marker in  
 CC the atpb2 gene present downstream of the p53 gene in the sample, and  
 CC relates more preferably to a gene polymorphism marker in the p53 gene.  
 CC The method is used for the detection of pathogenic gene deletion  
 CC especially that related to induction of a cancerous state.  
 XX  
 SQ Sequence 5490 BP; 1065 A; 1626 C; 1457 G; 1342 T; 0 other;

Query Match 0.7%; Score 36; DB 21; Length 5490;  
 Best Local Similarity 100.0%; Pred. No. 1.1e-06;  
 Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5255 gggcatggtggcacatgctgtagtcacagctactc 5290  
 |||||  
 Db 5364 GGGCATGGTGGCACATGCTGTAGTCCAGCTACTC 5329

RESULT 15  
 AAX89439/c  
 ID AAX89439 standard; DNA; 7680 BP.  
 XX  
 AC AAX89439;  
 XX  
 DT 15-FEB-2000 (first entry)  
 XX  
 DE 14-3-3 sigma transcription regulatory region.  
 XX  
 KW 14-3-3 sigma; HME1; stratifin; p53; diagnosis; cancer; psoriasis; polyp;  
 KW psoriasis; wart; inflammatory disease; proliferation; ss;  
 KW transcription regulatory region.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO9931240-A2.  
 XX  
 PD 24-JUN-1999.  
 XX  
 PF 18-DEC-1998; 98WO-US26924.  
 XX  
 PR 18-DEC-1997; 97US-0069416.  
 PR 15-DEC-1998; 98US-0010748.  
 XX  
 PA (UYJO ) UNIV JOHNS HOPKINS.  
 XX  
 PI Hermeking H, Vogelstein B, Kinzler KW;  
 XX WPI; 2000-022907/02.  
 XX  
 PT Use of 14-3-3 sigma polypeptides and nucleic acids for the diagnosis or  
 PT treatment of cancer -  
 XX  
 PS Claim 52; Page 68-71; 73pp; English.

CC This is the 14-3-3 sigma transcriptional regulatory region nucleotide  
 CC sequence. 14-3-3 sigma is a member of the 14-3-3 protein family and is  
 CC also known as HME1 or stratifin. 14-3-3 sigma expression is regulated by  
 CC p53 and exogenous expression of 14-3-3 sigma results in G2 block. The  
 CC 14-3-3 sigma nucleotide and amino acid sequences are used in the  
 CC invention to develop agents for the diagnosis, susceptibility  
 CC determination and treatment of cancer. The amino acid sequence can be  
 CC used in method for suppressing the growth of tumour cells. The 14-3-3  
 CC sigma polypeptides can mediate cell cycle arrest upon damage to cellular  
 CC DNA. 14-3-3 sigma probes can be used for diagnosing, testing  
 CC susceptibility to or treating cancers and identifying agents for treating  
 CC cancers. They can also be used to treat other proliferative diseases,  
 CC e.g. psoriasis, polyps, warts, and inflammatory diseases. The 14-3-3  
 CC sigma antisense oligonucleotides can be used for promoting the  
 CC proliferation and growth of cells.  
 XX  
 SQ Sequence 7680 BP; 1798 A; 2053 C; 2000 G; 1829 T; 0 other;

Query Match 0.7%; Score 36; DB 21; Length 7680;  
 Best Local Similarity 100.0%; Pred. No. 1.1e-06;  
 Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5255 gggcatggtggcacatgctgtagtcacagctactc 5290  
 |||||  
 Db 6110 GGGCATGGTGGCACATGCTGTAGTCCAGCTACTC 6075

